

ABSTRACT

A fluid coupling employing a viscous fluid to produce a limited slip differential assembly. The fluid coupling is disposed within a differential casing along with a pair of side gears. The fluid coupling includes a first impeller provided with a first set of vanes and drivingly coupled to one of the side gears, a second impeller provided with a second set of vanes and drivingly coupled to the differential casing so that the first set of vanes is facing the second set of vanes, and a viscous fluid disposed between the first and second sets of vanes.

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